

PHL - U. W.

709
710
711
712
713
714
715
716
717
718
719
720

sl 721
722
723
724
725 19155
726
727
728
729

Lysogenic

Berkman - Chicago

730 T-193 F

731 T-294 u Lysogenic
732 T-374 u
733 T-1891 u
734 T-67 u
735 T-61 F
736 T-481 F
737 T-1817 AEROGENES
738 T-179 F
739 T-1817 Pa

Lac	colic	Suc +	
-	-	-	0.
+	+ F ^v	-	50+, same var.
+	+	+	2+
+	-	-	0
+	-	-	0
+	-	-	0
+	-	-	0
+	-	-	4
+	-	-	0
+	-	-	0
+	-	-	semi turbid +, - buoyant; no flocs
+	-	-	Proteus; +
+	-	-	several -?, corner of plate
+	-	-	ca 200+ mostly small
+	-	-	Same L- like spreaders.
+	-	-	6+
+	-	-	0
+	-	-	0
+	-	-	0
+	-	-	1+ 1-?
+	-	-	0
			2 lac + { NG } { Malt }

G.G.

G.G., 2 lac +

724: grows out very slowly on TMS lac var.

Repeat 724

4-8-52 731 parent and -

Bendix - Chicago

6/26/51

			Lac	CD SUC	Ck
740	T-721	U	+	++	-
741	T-568	U	tg	-	-
742	#831	U RT.Kidney	-	+	-
743	P-228373	F	+	-	-
744	P-326566	F	+	-	-
745	P-525618	F	+	-	-
746	P-525656	F	-	++	-
747	P-442010	F	+	++	-
748	T-503	F	+	++	-
749	P-526647	F	-g	++	-
750	P-525627	F	+	-	++
751	T-855	F	-g	++	-
752	P-523641	F	+	-	-
753	P-524786	F	+	-	++
754	P-447929		+	+	-
755	T-444	Sputum	-	-	-
756	P-525625	F	+	++	-
757	T-581	F	+	-	-
758	T-789	BILE	(-)	-	-
759	T-543	U RT.URETER(?)	+	-	-
760	T-514	F	-	-	-
761	T-826	U	tg	++P	-
762	T-571	F	tg	-	-
763	T-566	F	+	-	-
764	T-677	WOUND	tg	++	-
765	526561	F	-	Malt-slow	-
766	T-567	BILE	+	n.g.	++
767	T-669	BRON. ASPIR.		-	-
768	T-735	U	+	-	-
769	T-630	PUS	+	-	-
770	T-586	BRON. ASPIR.	+	-	-
771	T-455	WOUND	tg	+	-
772	T-845	F	+	-	-
773	T-721	LUNG (POST)	tg	g	-
774	T-547	VAGINA	tg	g	-
775	T-481	F	-g	+	-
776	P-525639	F	+	-	-
777	526446	U	-	++	-
778	P-511731	F	+	-	-
779	P-526931	F	+	-	-
780	P-449019	F	tg	-	-
834	781	526391	U NG	+	-
	782	T-618	PLEURAL FL	+	-
	783	522900	U	+	-
	784	281645	F	-g	-
	785	T-572	F	tg	-
	786	512712	U	-	-
	787	T-584	F	tg	-
	788	459541	F	-	-

Malt measured.

EMSSkin Mal (Lac)

200+	n.g.
60mm? -	n.g.
14alt 30 small Mal - ?	slow lac
ca 30 " "	NG lac
11 mm +	Lac-pap?
0	
0	
1? -	Lac + Malt
0	
0	
Num +	n.g.
SD+, var size	n.g.
meany +	n.g.
" "	n.g.
SD Mt	mostly n.g.; lac+
T	
O	
150+	No
6+	No
20 mm + 15? ?	Mostly n.g.
150+ var size.	3 lac
100+ var size	other size
4+	1 lac + n.g.
all Malt	NG
Mal -	10 lac
Mal -	lac + lac
O	
0	
Num +	n.g..
O	
O	
0	
13+ ca 5 small -	
20 Mucoid +	
100+ mostly n.g.	3 +
50+ mostly n.g.	1 -
300+ " " 1 +	1 +
2+	
50+	
T	
T	
tiny: min to all Malt, small	
T	
30+ most n.g.	1 -
T	
T	
O	

Berkman - Chicago 6/26/51

		Lac	Ch	Mal	Suc	Gl
789	P-65318	F	+			-
790	414989-P	F	+		±	-
791	P-525654	F	+	-	-	-
792	T-520	u	+	-	-	-
793	P-525686	F	-	-	-	-
794	P-487660	F	+	-	-	-

T
T
T
T
~~2~~ all 3+

C. P. Miller - U. of Chicago. 6/26/51

795	151	H.B.	+	-	-	-
796	152	H.B.	+	-	-	-
797	153	H.B.	+	-	-	-
798	154	H.B.	+	-	-	-
799	155	H.B.	+	-	-	-
800	156	H.B.	+	-	-	-
801	157	H.B.	+	-	-	-
802	158	H.B.	++	-	-	-
803	159	H.B.	++	-	-	-
804	160	H.B.	++	-	-	-
805	161	H.B.	++	-	-	-
806	162	F	tg	-	-	-
807	163	H.B.	++	-	-	-
808	164	F	++	-	-	-
809	165	H.B.	++	-	-	-
810	166	H.B.	++	-	-	-
811	167	H.B.	±	-	-	-
812	168	H.B.	++	-	-	-
813	169	H.B.	++	-	-	-
814	170	H.B.	tg	-	-	-
815	171	H.B.	tg	-	-	-
816	172	F	+	-	-	-
817	173	H.B.	++	-	-	-
818	174	H.B.	++	-	-	-
819	175	H.B.	++	-	-	-
820	176	H.B.	+	-	-	-
821	177	H.B.	+	-	-	-
822	178	H.B.	+	-	-	-
823	179	H.B.	+	-	-	-
824	180	H.B.	+	-	-	-
825	181	F	+	-	-	-
826	182	F	tg	-	-	-
827	183	F	+	-	-	-
828	184	F	+	-	-	-
829	185	F	+	-	-	-
830	186	F	+	-	-	-
831	187	COLON	+	-	-	-
832	188	COLON	+	-	-	-
833	189	COLON	+	-	-	-

O
O
+
YOD
T
T

500+
500+

T
semi T some -?

" " "
" " "
T

semi T some -
20-30% +? all Lact, prob mut.

T
semi T some -
semi T some -
"

"
"
"
T
O

semi T -
semi T; some -?
"

T
O
semi T some -?
" all +
T
300+

semi T
T

RECHECK. 776 types.

Mag #	SLANT WG	Proximohistory			Control Lac	real	{	real
		Mal	Lac	Remarks				
629	✓	5+	+,-	Lac -				
635	✓	100	100					
644	✓	30	30					
655	✓	50+5-	- (+)					
657	✓	30-	-					
658	✓	40+	+					
661	✓	2+1-?			v.snn		v.snn.	
671	✓	100+	+		T		T	
672	✓	Molasses purple	10+, ±	+ I	O		15 variable +, (?)	
690	✓	4+	+ 2 typ		O		cal 15+, b. leg..	
694		600+	+		200-		200-	
722	✓	small	n.g?		v.snn.		40v.snn	
724	✓	6+	-(spn?)	Lac + ✓				
731	✓	100+(-?)	n.g.		Turbid		Turbid	
765	✓	?-	-?		60-		60-	
772	✓	13+ $\frac{5}{mm}$			cal 15+		100+ 600+	
810	✓				40-	500+		
804	F plate ✓				200+	5	sun T.	

Rechecks 772, 690, 672

C.P. Miller - U. of Chicago 6/26/57

781 IAC Cb
834 190 ILEUM

Vaughn

834	127	+
835	129	+
836	130	+
837	160	+
838	167	+
839	168	+
840	187	+
841	188	+
842	381	(+)
843	475	(+)
BENHAM	844	P-465464
845		+

+
+
-
+
-
+
+
+
+
+
+
+
+
+
+
+
+
-

W1647

W1648

T

T
T
T

200 small, variable salt+
10 Mal-oxalate
200 variable salt+, 2 types

50 variable +

T
100 large salt+
semi-T. Rupt!

804

805
206 ite

may be same organism

R.W. - P.H.L. 7/10/59

all 7⁺ Malt S^S

	LAC	Cl ⁺	Sac	Mal	I _{Ca}	S	
845-	81898	+	(P ⁺) ++	-	-	-	0
846		+	-	-	-	-	0
847		+	-	++	-	-	2+
848		+	-	-	+	-	0
849		(tg)	-	-	-	-	0
850		(tg)	-	-	++	-	0
851		+	-	++	-	-	0
852		+	-	-	-	-	0
853		+	-	-	-	-	0
854		+	+	+	-	-	0
855		+	-	+++	-	-	0
856							

Repeat, + 5 units penicillin to mixture with W1177 no Penassay

846-850 }
852-855 } no photographs S^R.

app. to test

activity of penicillin in
stimulating recombination

Bernham - Chicago 7/16/51

all λ^R S^S Malt

E457472m

	Lac	Cb	Suc	Mal	Ch	S	
856 P-448151 F	+	-	+ P	-	-	SR	T
857 P-457730 F	+	-	-	-	-	-	T
858 P-278502 F	+	-	-	-	++	-	T
859 527869 U	+	-	-	+	-	-	T
860 489015 U	+	-	-	-	±	-	300 variable +
861 528763 U	+	-	-	++	-	-	O
862 P-301814 F	±	+	g	g	-	-	O
863 P-406231 F	+	-	-	-	-	-	T
864 P-525666	±	+	g	g	-	-	40 Muc +
865 P-446497 F	+	-	-	-	±	-	T
866 P-528819 F	+	-	-	±	-	-	O
867 ANL101126 F	+	-	-	±	-	-	O
868 479425 U	+	-	-	H	-	-	O
869 P-497362 F	+	-	-	++	-	-	T
870 P-434711 F	±	-	-	-	-	-	It
871 P-522818 F	+	-	-	-	-	-	
872 P-487631 F	+	-	-	±	-	-	T in Mal; O on Lac !!
873 P-500604 F	+	-	-	-	-	-	T
874 P-522826 F	+	-	-	± (u?)	-	-	T
875 P-440777 F	±	±	++	-	-	-	T
876 P-407476 F	+	-	-	-	-	-	T
877 P-453521 F	g	+	g	g	-	-	100 muc
878 P-412280 F	g	+	g	g	-	-	60 muc
879 P-522847 F	g	+	g	g	-	-	60 muc (am) ±
880 P-525658 F	g	+	g	g	-	++	O, some v.tumy
881 P-190341 F	+	-	-	-	++	-	T
882 P-414666 F	+	-	-	-	-	✓ Lysogenic	T
883 ANL101212 F	+	-	-	++	-	-	T
884 P-447944 F	g	+	g	g	-	-	1000
885 P-526955 F	g	+	g	g	-	-	
886 P-431475 F	g	+	g	g	-	-	O

776

C.P. Miller - U of Chicago - 9/23/51

all metal + s²

LAC cb ch ~~sec~~ ~~sec~~

Bennett - Chicago 7/26/51 AR

		LAC	CB	Maldec	Ch	fact	
920	JONES, MABEL F	+	-	+	±	-	0
921	VINSON, JULIA F	+	-	-	-	-	0
922	17065 U	+	-	+	+	-	0
923	387178 U	+	-	-	-	-	0
924	DUMKUNO, ROE F	+	-	-	-	-	0
925	Spanier, Joseph LEFT KIDNEY	+	-	-	-	-	0
926	529728 U	+	-	++	-	-	0
927	45146 RECTAL SWAB	+	-	-	-	-	ca 500 +, ± ?
928	TRUITT, NETTIE F	+	-	-	-	-	0
929	STENNFIELD, D. F	+	-	-	-	-	0
930	GROOM, NETTIE F	+	-	-	-	-	0
931	240 U	±	-	±	++	++?	0
932	524-895 RECTAL SWAB	+	-	++	-	-	0
933	MILLER, FLORENCE LUNG	+	-	-	-	-	0
934	49949 U	-	-	-	-	-	0
935	528839 U	+	-	-	-	-	0
936	829638 U	-	-	-	-	-	0

Biller-4.C.

9/27/57

A

		Lac	SucCh	cb.	Mal	
937	120	H.B.	+ ^{PPG}	++	-	+
938	121	H.B.	+(-)	±	-	+
939	122	SPLEEN	+	++	-	+
940	123	SPLEEN	+	++	-	+
941	124	H.B.	+	-	-	+
942	125	H.B.	+	-	-	0
943	126	SPLEEN	+	-	-	0
944	127	PATIENT WITH URETHRITIS	+	-	-	1+
945	128	SPLEEN	+	++	+	0
946	129	SPLEEN	+	++	+	2-
947	130	H.B.	+	++	+	0
948	131	"	+	++	+	0
949	132	"	+	++	+	1+
950	133	"	+	++	+	0
951	134	"	+	+	-	0
952	135	"	+	++	-	0
953	136	"	+	-	-	0
954	137	"	+	++	-	0
955	138	"	+(-)	++	-	0
956	139	"	+	+	-	0
957	140	"	+	+	-	0
958	141	"	+	+	-	0
959	142	"	+	+	-	0
960	143	"	+	-	-	0
961	144	"	+	-	-	T
962	145	"	+	++	-	semi-T, (many +, -)
963	146	SPLEEN	-	±	+	SR
964	147	"	-	-	+	SR
965	148	"	-	+	+	T
966	149	"	±	-	-	T
967	150	"	(± slow)	-	+	0

962 Lac+oh, 17el-mut. Save for retest. colonies on EAS seen
w.g. in transfer.

Benham - Chicago

968 T CARTER, EDITH U
 969 T CROWLEY, ERION RT. EAR
 970 T MCKINNEY, ELIZ. F

	bac	Cl-
971	+	-
972	+	++
973	+	+ hair?
974	+	-
975	+	-
976	+	-
977	+	+
978	+	-
979	+	-
980	9461	at 955 -
981	+	-
982	+	-
983	+	-
984	+	-
985	+	-
986	938	-

	Cl- Suc	17al	ETTS Malsom
971	-	+	0
972	+	+	0
973	-	+	0
974	-	-	0
975	-	+	0
976	-	-	0
977	+	-	0
978	+	-	0
979	+	-	0
980	+	-	0
981	-	-	0
982	-	-	0
983	-	-	3+
984	-	-	0
985	-	-	0
986	-	-	0

Benzam - Chicago 9/30/57

AR

		LAC	cb	Clr	Sue	Mal	S	
987	SHANAFELT, D.	ISCHIAL ABSCESS	-	t.	-	-	-	0
988	GANSER, A.	U	+g	-	+g	-	-	0
989	BIRRIAND, M.	F	+	-	-	-	-	0
990	NORMAN, A.	RT. EYE	+	-	-	-	-	0
991	T SKINNEY, M.	U	-	+	-	+	-	4+
992	FORTNER, M.	THROAT	+	-	-	-	-	2+
993	MARTIN, V.	PANCREAS	+	-	-	-	-	2+
994	ISMIAL, D.	WOUND	+	-	-	-	-	T
995	SMITH, STEPH.	TRACHEOTOMY	+g	-	+g	-	-	T
996	WILLIAMS, N.	LOCHIA	+	-	-	-	-	T
997	HENLEY, D.	PERITONEUM	+	-	±	-	-	0
998	CYRISTOPHERSEN,	E. PENIS	+	-	-	-	-	0
999	McMICKEL, M.	U	+g	+	-	+g	-	0
1000	YORK, DEROT.	F	+	-	-	-	-	0
1001	JORDAN, DWIGHT	F	+	-	-	-	-	0
1002	HAND, WILLIE	U	-	-	+g	-	-	0
1003	THOMPSON, A.	U	(+g)	-	+g	-	-	0
1004	CORRIGAN, J.	U	+	-	-	+g	-	0
1005	DIBENETTO, T.	U	+g	-	-	-	-	0
1006	SAFFE, M.	U	+	-	-	-	-	0
<u>8-21-51</u>								
1007	LN 101206	F	+g	+	-	-	-	0
1008	LN 101379		+	-	+	-	-	0
1009	125993	F	-	+	-	-	R?	0
1010	187447	F	-	-	-	-	S	0

Lysogenic .

T
ca 800 +g
0

T
0

Retests of colicin-producing strains

8/26/51

716- Test of colicin action
40. 518 US. W1695

XW1695
on EMS-Kac-San mal

25	++	-	0
53	-	-	0
56	+	-	(+ slow)
61	++	-	0
62	-	-	5+
65B	-	-	0
70	-	-	T
75	-	-	0
90	-	-	0
93	+	+	1+
95	+	+	11 (slow)
750	+	+	2+
753	+	-	0
850	++	-	0
903	-	-	0
913	-	-	4+(slow)
919	-	-	0
945	+	+	0
946	+	+	3+
947	+	-	0
978	++	-	—
987	-	-	—
1002	-	-	—
1008	++	-	0
1013	+	+	—
1016	+	+	0
1017	+	+	0
1018	+	-	T
1028	+	-	1
1036	++	-	0

October 14, 1951.

Other festas.

A. W1490 B W1602
Bry Lact Flav. BM - Lac - Flav -

A.	#	1052	=	w 1754 mg 37 Mal-
	1053		1755	+
	1050		1756	-
Mal -	1056			
	1060		1757	+
	1063		1758	-

B! & W 1113
C. W 1115
776 - 105⁴
1057
1058
1059
1061
1062
1064
1065
1066
1067
1068
1069
1070
1071

C w1611

wg 4

A
++
++
50
++
++

$\frac{P}{4} + \frac{P}{4} = P$

U + + 0 0 0 T 0 0 0 0 0 0 0 0 0

1052A

A City, Iact., -
+ mostly all lac-
+ Ca 30 mostly flint, 1-
v.s.m. 705m

β $-O$ mostl^{ly} bu $2 + 1 \swarrow$	C $I \leftrightarrow$ O ununun $lact+$
$2 + A \cancel{2}$	$lact$
$2 + A \cancel{2}$	$lact - ? lact.$

Note 1053 is seen to be futile with w_2 as well as w_1

But note $w_{1115} \times w_{111}$ apparently strike., But w_{113} gave only 1 note very sl.

Also confirms 1052-3-5-6- 1060. ??

Berrier W52A: gives Lac- and Lac+ (H₂O) - x W1611

Repeat 1053 x 4/14/90: 29 colonies, all Malt+

Note: Mal-
was seen in x W1611

Catlin - Marquette - 8-17-51 acc DR

E11spelum lac-sm

51

		lac	cb	sne	ck	Mal	S	Spf		
1011	23a	+	-	-	+	+	S		0	
1012	26f	+	-	-	-	+	S		0	
1013	31a	+	-	-	+	+	S		0	
1014	35a	+	-	-	±	+	S		18+	18+
1015	38a	+	-	-	-	+	S		0	
1016	44e	+	-	-	+	+	S		0	
1017	45a	+	-	-	+	+	S		0	
1018	46d	+	-	-	±	+	S		ST	
MISS.	{ 1019	51c	+	-	-	-	S			
	1020	55a	+	-	-	-	S			
1021	57b	+	-	-	-	+	S		0	
1022	58b	+	-	-	-	+	S		0	
1023	59a	+	-	-	-	+	S		0	
1024	64c	+	-	-	-	+	S		0	
1025	66a	+	-	-	-	+	S		0	
1026	69b	+	-	-	-	+	S		1+	1dg
1027	73a	+	-	-	-	+	S		0	
1028	74c	+	-	-	-	+	S		2+	2+
1029	75a	+	-	-	-	+	S		0	
1030	86a	+	-	-	-	+	S		2-	2dg
1031	89a	+	-	-	-	+	S		0	
1032	90b	+	-	-	-	+	S		0	
1033	91a	+	-	-	-	+	S?			
1034	94a	+	-	-	-	+	S?			
1035	95a	+	-	-	-	+	S?			
1036	96a	+	-	-	-	+	S		0	
1037	102c	+	-	-	-	+	S		2+?	
1038	103a	+	-	-	-	+	S		0	
1039	106a	+	-	-	-	+	S		0	
1040	107b	+	-	-	-	+	S		0	
1041	108a*	+	-	-	-	+	S		0	
1042	109a	+	-	-	-	+	S		0	
1043	110a	+	-	-	-	+	S		0	
1044	111b	+	-	-	-	+	S		T	
1045	112a	+	-	-	-	+	S		0	
1046	113a	+	-	-	-	+	S		40+	10+
1047	114c	±	-	-	-	+	S		0	
1048	115b	+	-	-	-	+	S		0	
1049	116a	+	-	-	-	+	S		1+	1+
1050	118a*	*	-	-	-	-	S		0	
1051	119av	(±)	-	-	-	-	S		W1710	1- 1+? Both lac-Mal-
1052	121a	*	-	-	-	-	S		W1754	0 Later; Fertile
1053	124a	-	-	-	-	-	S		W1755	0 Fertile
1054	125b	-	-	-	-	-	S		W1766	0 Fertile
1055	127a	-	-	-	-	-	S		1+, 1±?	→ lac+Mal+ ; lac-Mal-
1056	129d	-	-	-	-	-	S		1+	
1057	131a	-	-	-	-	-	S		2+	?
1058	132a	-	-	-	-	-	S		T	
1059	133a	-	-	-	-	-	S		W17570	Fertile
1060	135b	-	-	-	-	-	S			

dg = didn't grow, part. marginally resistant to Sm.

	Catlin	- Marguerite	- 8-17-51		
	Lac	Ob	SucCh	Mal	EM5 Malson
1061	138a	+	-	+	4+
1062	140a	-	-	+	0
1063	143a*	+	+✓	→+	0 (W1758)
1064	145a	-	-	+	0
1065	146b	-	-	+	0
1066	147a	-	-	+	0
1067	150a	-	-	+	3± tiny
1068	151b	-	-	+	0
1069	153b	-	-	+	0
1070	154c	-	-	+	2- tiny
1071	155b	-	-	+	0
1072	157a	-	-	-	0
1073	158a	-	+✓	+	0
(1074)	161a	-	+✓	+	1-?
1075	162a	-	-	+	0
1076	163a	-	-	+	0
1077	164a	-	-	+	0
1078	165a	-	-	+	0
1079	168a	-	-	+	1-?
(1080)	169c	-	+✓	+	1+?
1081	170c	-	+✓	+	2+? : 2 Mal- (blue); 1 lac-Mal- light
1082	171b	-	-	+	4+
1083	172b	-	-	+	0
1084	173a	-	+✓	+	0
1085	174a	-	-	+	4+
1086	175b	-	-	+	0
1087	176a	-	-	+	2+
1088	177a	-	+✓	+	0

1051: mixed: lac+ - Mal-

A = Lac+ (not pure 1st isol.)

B = Lac- (unstable?)

Rechecks 1051, 1081. 1051 shows 2 components on lac. (See over)

1051A is unstable lac⁺.

Each of 4 "clear" colonies
showed lac⁻ components.

10/5/51

UV (10^{-12} sec
for 10^{-6} surv.)

increased proportion
of lac⁻ colored cells

but left mostly
lac⁺.

Check through S^R mutation.

776 - 1051 = W1710

Possibility of suggestion
not ruled out.

1051C = Stable lac⁺ from B.

Retests:

1051 A 3 Lac+ Mal-Xyl-Mal[±]
B 1 Lac- Mal-Xyl-Mal[±]

Check Photohraphy

↙ But Par. is Lac⁺, Mal-Xyl - !

1056 + +
 + - -

1081 1 Lac+ Mal+ Xyl+ Mal⁺
 1 Lac- Mal- Xyl- Mal-

✓

PDS. crossed W1710 lac- × W1490 : very high yield
10/10/51 " W1394 : " low or 0.

Berkham - Chicago

8-21-51

λ:

		Lac	Ob	Suc Ch	Malsm
1089	383857-P	+ ♀	+	-	1+ gummy
1090	366848-P	+ F	-	-	0
1091	437817	abnormal	+	-	0
1092	443915-P	F	+	-	0
1093	482333	U	± ♀	-	0
1094	502080-P	F	± ♀	+	0
1095	516884-P	F	+	-	0
1096	P-522824	F	+	-	0
1097	528879	U	+	-	1+
1098	528964	U	-	-	0
1099	529857-P	F	+	-	0
1100	XIXXX	63416 abdominal punct.	+	-	0

V. W. - P. H. L.

8-21-51

1101	74251	+	+	0
1102	74252	+ ♀	+	0
1103	74254	+ ♀ spreader	-	0
1104	74257	+	-	0
1105	74335	+	± +	0
1106	74336	+ (fold)	±	0
1107	74351	+	-	0
1108	74354	(+) -	-	0
1109	74522	+	-	0
1110	74761	+ ♀	+	0
1111	74763	+ (fold)	+	0
1112	75243	+	-	0
1113	75789	+ ♀	+	0
1114	75791	+	-	0
1115	75819	+	-	0
1116	75820	+	+	0
1117	75860	+	-	0
1118	75916	+	-	0
1119	76201	+ ♀	+	0
1120	76202	±	+	0
1121	76209	+ ♀	+	0
1122	76307	+ ♀	+	0
1123	76308	+	-	0
1124	lac-fn. 1108	-	+	0

776 UW PH Lab. 9/14/51

		Lac	Cb.	Suc	Ch	Mal	S
1125	—	+	—	—	—	—	—
6	78961	+	—	—	—	—	—
7	80807	+	—	—	—	—	—
8	—	+	—	—	—	—	—
9	78349	+	—	—	—	—	—
1130	78389	+	—	—	—	—	—
1	80742	+	—	—	+	—	—
2	78390	+	—	—	+	—	—
3	78522	+	—	—	—	—	—
4	78960	+	—	—	—	—	—
1135	80015	+	—	—	—	—	—
6	83552	+	—	—	—	—	—
7	78344	+	—	—	—	—	—
8	79267	+	—	—	—	—	—
9	78953	+	—	—	—	—	—
1140	78753	+	—	—	—	—	—
1	79125	+	—	—	—	—	—
2	79545	+	—	—	+	—	—
3	79562	+	—	—	—	—	—
4	79361	+	—	—	—	—	—
1145	79816	+	—	—	—	—	—
6	85133	+	—	—	+	—	—
7	Lac-fn. 1133	—	—	—	—	—	—
8	78952	+	—	—	—	—	—
9	Lac-fn. 1156	—	—	—	—	—	—
1150	Lac-fn. 1126	—	—	—	—	—	—
1	Lac-fn. 1127	—	—	—	—	—	—
2	77547	+	—	—	—	—	—
3	Lac-fn. 1138	—	—	—	—	—	—
4	77872	+	—	—	—	—	—
1155	77546	+	—	—	+	—	—
6	79696	+	—	—	—	—	—
7	79264	+	—	—	—	—	—
8	79180	+	—	—	—	—	—
9	Lac-fn. 1141	—	—	—	—	—	—
1160	Lac-fn. 1144	—	—	—	—	—	—

U of Chi Beaufort

1161 519345 U
 1162 520214 Abd brn.
 1163 T~~1380~~ 1115 1595 F
 1164 P428740-14546 F
 1165 303404 U
 1166 532475 U
 1167 P410748-1425 F
 1168 360353 U
 1169 T602 Hapl. Bl.
 1170 465546 U
 1171 299828 U
 1172 B3192 Ab
 1173 P501503-1685 F
 1174 239457 U
 1175 P531933-1649 F
 1176 P443661-1703 F
 1177 531369 U
 1178 532439 U
 1179 200517 U
 1180 530836 Simes
 1181 T1260 Billary F
 1182 T1287 F
 1183 T1398 U
 1184 T516 F
 1185 T921 F
 1186 P527128 F
 1187 T807 F
 w/ 271188 T1205 U

1189 T1258 U
 1190 T1681 liver abscess
 1191 T436 F
 1192 T662 F
 1193 T1521 U
 1194 T1289 U
 1195 T605 mag.
 1196 T805 F
 1197 T1517 U
 1198 T1676 F
 1199 T582 F
 1200 T447 U
 1201 T1513 bld
 1202 T938 lymph node
 1203 T855 ?
 1204 P530163-1738 F
 1205 T569 bile
 1206 T704 F
 1207 T917 throat
 1208 T526 U
 1209 T529 F
 1210 P101755 F
 1211 T1793 U
 1212 T1378 sputum
 1213 T1606 F

all A R

	lac	Cl	Suc	CK	Mal	Spn,	R?	EMS	mal, Spn
1161	+	+	+ ^g	-	+	R?	R?	x	
1162	+	+	+ ^g	-	+	R?	R?	x	
1163	+	+	+	+	+	R?	R?	x	
1164	+	+	+ ^g	-	+	S	S	1+ ^g	
1165	-	-	-	-	+	S	S	0	
1166	-	-	-	-	+	R	R	0	
1167	-	-	-	-	+	S	S	0	
1168	-	-	-	-	+	S	S	0	
1169	-	-	-	-	+	R	R	0	
1170	-	-	-	-	+	S	S	0	
1171	-	-	-	-	+	S	S	0	
1172	-	-	-	-	+	S	S	0	
1173	-	-	-	-	+	S	S	0	
1174	-	-	+ ^g	-	+	S	S	0	
1175	-	-	+ ^g	-	+	S	S	0	
1176	-	-	-	-	+	S	S	1+ ^g	
1177	-	-	-	-	+	S	S	0	
1178	-	-	-	-	+	S	S	0	
1179	-	-	-	-	-	S	S	0	
1180	-	-	-	-	-	R?	R?	0	
1181	-	-	-	-	-	S	S	0	
1182	-	-	-	-	-	S	S	0	
1183	-	-	+ ^g	-	-	S	S	0	
1184	-	-	-	-	-	S	S	0	
1185	-	-	-	-	-	S	S	0	
1186	-	-	-	-	-	S	S	0	
1187	-	-	-	-	-	S	S	0	
w/ 271188	-	-	-	-	-	S	S	6-	→ Mal-X ⁺

→ lac⁺

	lac								
1189	-	-	-	-	-	-	-	-	-
1190	-	-	-	-	-	-	-	-	-
1191	-	-	-	-	-	-	-	-	-
1192	-	-	-	-	-	-	-	-	-
1193	-	-	-	-	-	-	-	-	-
1194	-	-	-	-	-	-	-	-	-
1195	-	-	-	-	-	-	-	-	-
1196	-	-	-	-	-	-	-	-	-
1197	-	-	-	-	-	-	-	-	-
1198	-	-	-	-	-	-	-	-	-
1199	-	-	-	-	-	-	-	-	-
1200	-	-	-	-	-	-	-	-	-
1201	-	-	-	-	-	-	-	-	-
1202	-	-	-	-	-	-	-	-	-
1203	-	-	-	-	-	-	-	-	-
1204	-	-	-	-	-	-	-	-	-
1205	-	-	-	-	-	-	-	-	-
1206	-	-	-	-	-	-	-	-	-
1207	-	-	-	-	-	-	-	-	-
1208	-	-	-	-	-	-	-	-	-
1209	-	-	-	-	-	-	-	-	-
1210	-	-	-	-	-	-	-	-	-
1211	-	-	-	-	-	-	-	-	-
1212	-	-	-	-	-	-	-	-	-
1213	-	-	-	-	-	-	-	-	-

lac⁺
lac⁺

1195 may be susceptible to CK from 1195

U. of Chi. Benham
See Cb

		Suc	Ck. Mel	Suc	EMMSmelSw
1214	P532411-1709 F	+	-	-	1+ lac ⁺
1215	T1603 F	+*	-	+	1+ lac ⁺
1216	T927 Blvd, post mark	-	-	-	0
1217	T1785 U	±g	+	+	R
1218	T523 F	+	-	-	S
1219	lac- fr 1208	-	-	-	0
1220	lac- fr 1215	-	-	+	S

Starr - California

1221	T 56: 3g	+	-	±g	S	1+
1222	T 64: 3g	+	-	±g		1+
1223	T 65: 3g	+	-	±g		1+
1224	T 66: 3g	+	-	±g		1+
1225	T 69: 3g	+	-	±g		1+
1226	T 70: 3g	+	-	±g		1+
1227	T 73: 1g	+	-	±g		1+
1228	T 74: 1g	+	-	±g		1+
1229	T 75: 1g	+	-	±g		1+
1230	T 76: 3g	+	-	±g		1+
1231	T 77: 1g	+	-	±g		1+
1232	T 78: 3g	+	-	±g		1+
1233	T 81: 3g	+	-	±g		1+
1234	T 86: 3g	+	-	±g		1+
1235	T 131	+	-	±g		1+
1236	T 146: 10g	+	-	±g		1+
1237	T 152: 10g	+	-	±g		1+
1238	T 153: 10g	+	-	±g		1+
1239	T 155: 3g	+	-	±g		1?
1240	T 180: 3g	+	-	±g		1?
1241	T 181: 10g	+	-	±g		1?
1242	T 182: 10g	+	-	±g		1?
1243	T 256: 3g	+	-	±g		1?
1244	T 258: 3g	+	-	±g		1?
1245	T 259: 3g	+	-	±g		1?
1246	T 260: 3g	+	-	±g		1?
1247	T 287: 3g	+	-	±g		1?
1248	T 288: 3g	+	-	±g		1?
1249	T 269: 3g	+	-	±g		1?
1250	T 290: 3g	+	-	±g		1?
1251	T 292: 3g	+	-	±g		1?
1252	T 293: 3g	+	-	±g		1?
1253	T 294: 3g	+	-	±g		1?
1254	T 295: 3g	+	-	±g		1?
1255	T 297: 3g	+	-	±g		1?
1256	T 298: 3g	+	-	±g		1?
1257	T 299: 3g	+	-	±g		1?
1258	T 300: 3g	+	-	±g		1?
1259	T 301: 3g	+	-	±g		1?
1260	T 304: 3g	+	-	±g		1?
1261	T 306: 3g	+	-	±g		1?
1262	T 383: 1g	+	-	±g		1?

all ^R
O amelothemicus

UWPH lab	<u>lac</u>	Cr Suck	Mal sm			
1263	86518	+	-	+	1+	
1264	86978	+	-	++	1+	
1265	86981	+	-	++		
1266	87328	+	-	++		
1267	88410	+ 3	-	++	2+ 3	
1268	89456	+	-	++		
1269	90184	+ ³	+ ³	++	R	
1270	90204	+	-	++		?
1271	90296	+	-	++		
1272	90297	+	-	++		
1273	91479	+	-	++		
1274	91715	+	-	++		
1275	92086	+	-	++ v. sharp.	R	
1276	lac-fv 1267	-	-	-	T	segmented?

776 RESUME
August 5, 1952.

These cultures have been returned
on slants for further test.

S/Mal sm

W 776
1362

x 1177
22 Lac⁺. Dimorphism noted. Lac, TS.

x other tester

a succ-

b

1547 266	Stuart W1 lac-Mal+	1--	Residual lac mutation
1755 1053	Mal+ lac ⁺		Mal - x 1611 ?
1756 1055	Mal-	?	
1757 1060	Mal+	+	
1763 1296	Clifton K201	--, o	
1764 1281	Clifton K93	2->100+?; all+	
95	lac+ Mal+	1-, ?xx.	
232	lac- ^m Mal- ^m	16? see?	5+
-731	Lac+, Mal ⁺	(100+,-)(T), [1-?]	small lac-mal-). "utter confusion". Mal-lac-as control!
1390		3+ 11-; 1--	o, o,
1413?		several hundred;	
1444		+ and -;	o, o later, o F+, F-.
1507 ++	1H, 6-; 9-?	2-? PARENT MOTTLED	
1545 ++	2+ 7-;	3+, 10+.	
1554 L+M-	60--, o, o	0	
1560 ± -?	60+ 3-) all lac+,	2+ 1- ^(small) ₁₆₀₂	
1575 ++	many --, o,	small ++	
1578 ++	3+ 4- [±] L+	o, o	
1605 ++	many -(+, -); o o	o	
1608 ++	17-20+; o, o	o	
1622 ++	3+ 6- (4 _{ung}) 20+-	1602: 18+ 4-?	
1623 ++	1+? # 1--	1-	
1638 ++	100+, T ^{1 control} Cerozo +, -?	o	
1663 ++	25+ 5- 2+, 1+,	3+ 1602	
1680 ++	100-, 100+m X + control		
1689 ++	18+, 4-, 1-sm;	13+, 20- c 1817	

1693 ++ 37+ 3- ; 3+ 1 - small;

1699 1-

2+, 5- x 18' 17

1602 2-

776-

vials.

Also saved in vials and slants
slants

11	86	1302	2	722
	89	1303	7	724
	90	1304	11	804
	91	1305	14	810
	98	11	17	843
		14		
		15		
1200		16	20	962
01		17	21	
08		18	27	1057
09		19	53	1074
10		20	56	1080
15		83	58	1328
16		84	61	1454
17		85	62	1574
18		86	93	1620
20		87	144	1621
21		88	153	1641
22		89	208	1681
23		91	440	1692
29		92	644	1694
30		93	658	1701
32		94	661	1731
37		95	671	1758
38		96	690	
39		97	694	
40	1400	1421		
46	01	22		
47	02	23		
49	03	24		
50	04			
	05			
	06			
	07			
	08			
	09			
	10			
	11			
	16			
	18			
	19			
	20			

W1611

SRP CROSSES: (wg 4) x wg^s 1 - 30.W1611 (SRauxo) x wg m (S^s proto)

"1/6/52 Grew parents together in 5 cc for a day, centrif, washed once & plated on EMS-lac-Sm. One plate per cross. No control plates studied simultaneously. Poor washing (probably) accounts for increasing turbidity on some of plates at 72 hrs (when all were examined). The large nos. of larger colonies appearing on such plates, then, may or may not be prototrophs.

colonies turbid

wg		
1	40+	-
2	0	-
3	0	-
4	0	-
5	200+	+++
6	28+	-
7	200+	+++
8	0	++
9	0	-
10	0	-
11	0	-
12	1+, 1-	+
13	0	-
14	0	-
15	2+	-
16	0	+
17	0	+
18	0	-
19	0	-
20	0	-
21	400	-
22	0	-
23	0	-
24	100	+++
25	0	-
26	0	-
27	0	-
28	300	+++
29	4+	-
30	3+	-

WB serotypes.

O K H

Kaufmann Drsorbury EML Shear

1		K30?	x		
2		8	+	77	
3		25	0	8	
4			0	25	
5			0		
6					
7			2		
8					
9			0 12		
10			0 x		
11		0		15	1,12
12					
13					13
14					
15	86	12		13	
16					
17	41	0			
18		0			
19					
20				9	7
21					
22					
23					
24	40	13			
25					
26	1	12			
27		0			
28	x	19.			
29					
30	19,133	0			27
31		0			
32					
33	21	4		121	4
34					
35		+		21	
36				9	
37	4	5		4	
38		0			
39	4	5		4	
40	7	0		7	
41					
42					
43	21	0			
44					
45					
46	76	7		16	7
47	x	new		3	
48	81	27		81	10
49		0			
50		0			

new H

-073

citrate +

citrate +

citrate +

= 37?

$\boxed{x = \text{new}}$

K φ - EML PDS

51
52 18 46 14 X
53 20 19 0 ✓
54 21 20 0 ✓
55 25 19 12 —
56 026 136 0
57 025 0

K76 = 1320

026

probably duplicate of ug 55